

REPORT  
OF THE  
DEPARTMENT OF HEALTH  
OF THE  
PANAMA CANAL  
FOR THE  
MONTH OF DECEMBER, 1915

---

CHAS. F. MASON

Lieut. Colonel, Medical Corps, United States Army  
Chief Health Officer, Balboa Heights Canal Zone

---

*Gift of the Panama Canal Museum*

WASHINGTON  
1916







REPORT  
OF THE  
DEPARTMENT OF HEALTH  
OF THE  
PANAMA CANAL  
FOR THE  
MONTH OF DECEMBER, 1915

---

CHAS. F. MASON

Lieut. Colonel, Medical Corps, United States Army  
Chief Health Officer, Balboa Heights, Canal Zone

---

WASHINGTON  
1916



# CONTENTS.

---

Page.

Letter of transmittal.....	5
General remarks.....	5
Vital statistics:	
Health of employees.....	5
Health of residents of Canal Zone.....	6
Health of residents of the city of Panama.....	7
Health of residents of the city of Colon.....	7
Hospital division:	
Ancon Hospital.....	7
Board of health laboratory.....	7
Insane department.....	8
Chronic ward.....	8
Colon Hospital.....	8
Palo Seco Leper Asylum.....	8
Santo Tomas Hospital.....	8
District dispensaries.....	9
Sanitary division:	
Canal Zone.....	9
Panama.....	9
Colon.....	11
Quarantine division:	
Panama.....	11
Colon.....	11
Statistical tables:	
Table I. Admissions, deaths, and noneffective rates for employees; deaths of residents of Panama, Colon, and the Canal Zone.....	12
II. Deaths by age, color, and sex.....	14
III. Deaths by nationality.....	14
IV. Deaths of white Americans.....	15
V. Causes of deaths of employees.....	15
VI. Causes of deaths of civil population (employees and nonem- ployees) and military and places where chargeable.....	16
VII. Admissions and deaths in the hospitals of the Panama Canal....	18
VIII. Consolidated hospital report.....	30
IX. Consolidated dispensary and admission report.....	32
X. Employees: Constantly sick and noneffective rates per 1,000.....	33
XI. Employees: Days' treatment per admission, hospitals and quarters.....	34
XII. Financial statement.....	34
XIII. Ancon Hospital.....	36
XIV. Colon Hospital.....	41
XV. Palo Seco Leper Asylum.....	42
XVI. Santo Tomas Hospital.....	42
XVII. Sanitary work done in Canal Zone, Panama, and Colon.....	45
XVIII. Quarantine transactions.....	47
XIX. Issues of quinine.....	48
XX. Personnel report.....	49





## LETTER OF TRANSMITTAL.

---

THE PANAMA CANAL, CANAL ZONE,  
HEALTH DEPARTMENT,  
*Balboa Heights, January 11, 1916.*

Maj. Gen. GEO. W. GOETHALS,  
*Governor, The Panama Canal,  
Balboa Heights, Canal Zone.*

SIR: I have the honor to submit the following report of the operations of the Department of Health for the month of December, 1915.

Very respectfully,

CHAS. F. MASON,  
*Chief Health Officer.*

### GENERAL REMARKS.

Two cases of yellow fever arrived at Balboa quarantine from Buenaventura, Colombia, on December 10, 1915. These cases were isolated, and the S. S. *Jamaica*, on which they arrived, was disinfected and held, with personnel, in quarantine for six days. One of these cases died in Ancon Hospital on December 14, and the other was discharged well.

### VITAL STATISTICS.

#### EMPLOYEES.

The health of the employees remained good during the month. The number of names on the rolls for the preceding month was 33,551.

The total number of admissions to hospitals and quarters was 859, a rate of 307.23 per thousand, as compared with 311.01 for the preceding month and 331.27 for the corresponding month of last year.

The total number of deaths from all causes was 17; of these 14 died from disease, or 5.01 per thousand, as compared with 5.96 for the preceding month and 3.64 for the corresponding month of last year. There was only one death among white employees; that was due to cirrhosis of the liver, a chronic disease. Pneumonia, always prevalent at this season, was the chief cause of death among the blacks.

The constantly noneffective rate was 10.31, compared with 9.79 for the preceding month and 10.57 for the corresponding month of last year.

The total admission rate for malaria, hospitals and quarters, was 26.11, compared with 22.09 for last month and 60.95 for the corresponding period of last year, and the total noneffective rate 0.88, compared with 0.70 for last month and 1.18 for December, 1914. Malaria caused 8 per cent of all admissions to hospitals and quarters. Nine per cent of the total noneffective rate was caused by malaria.

The diseases next to malaria causing the highest admission rates, in the order of their numerical importance, were: Venereal diseases, diseases of the digestive system, respiratory system, and nervous system. These five classes of diseases caused 46 per cent of all admissions to hospitals.

The admission rate for typhoid fever was 0.36, compared with none for last month and 0.33 for the corresponding month of last year.

#### EFFECTS OF RACE.

The admission rate to hospitals and the death rate for disease for black employees were 135.18 and 5.37 per thousand, as compared with 283.88 and 2.65 for white employees. The noneffective rate for disease and injuries for black employees per thousand was 9.05, as compared with 18.31 for white employees.

The admission rate to hospitals and quarters for malaria was 19.43 per thousand for blacks, as compared with 68.98 for whites.

The death rate for Americans was 2.95, and the admission rate to hospitals for disease was 200.39. The admission rate for malaria to hospitals and quarters was 58.94 for Americans.

#### DEPORTATIONS.

There were 5 deportations accomplished during the month, all of whom were employees; 3 for disease and 2 for accident. Of those deported for disease 1 was for alcoholic psychosis, 1 for tuberculosis (pulmonary), and 1 for diabetes mellitus.

#### CANAL ZONE.

The population of the Canal Zone is 31,598, among whom there was a total of 38 deaths; of these 35 deaths were for disease, giving a rate of 13.29 per thousand, as compared with 11.14 for the preceding month, and 12.37 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 49 compared with 55 last month.

There were 58 births reported, giving a rate of 22.02 per thousand. Of these births 15 were white and 43 of colored children. There were 13 deaths of children under one year of age, 2 white and 11 colored, giving an infant mortality of 133 for white and 256 for colored children, with a general average of 224. The percentage of stillbirths to total births was 8.

## PANAMA CITY.

The population of the city is 60,373, among whom there was a total of 161 deaths; of these 156 deaths were from disease, giving a rate of 31.01 per thousand, as compared with 27.63 for the preceding month and 39 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 51, compared with 47 last month.

The principal causes of death showing an increase as compared with November were: Typhoid fever, 1, compared with none for the preceding month; apoplexy, 3, as against 1 last month; and pneumonia 20, compared with 12 for the month of November.

There were 245 births reported, giving a rate of 48.70 per thousand. The infant mortality was 253 per thousand. The percentage of stillbirths to total births was 5.

## COLON.

The population of the city is 29,331, among whom there were 60 deaths; of these 59 deaths were from disease, giving a rate of 24.13 per thousand, as compared with 20.87 for the preceding month and 21.69 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 41, compared with 41 last month.

The principal causes of death showing an increase as compared with November were: Typhoid fever, 1, compared with none last month; measles, 1, as against none last month; tuberculosis, 8, compared with 3 for last month; and organic disease of heart, 4, as against 3 for the preceding month.

There were 75 births reported, giving a rate of 30.68 per thousand. The infant mortality was 200 per thousand. The percentage of stillbirths to total births was 7.

## HOSPITAL DIVISION.

## ANCON HOSPITAL.

During the month the average number of patients constantly in hospital was 473.71. The per capita cost of patients in hospital, proper, was \$1.91 gross and \$0.945 net. The net per capita cost of patients in the insane asylum was \$0.49. The new concrete crematory was completed and turned over to the hospital during the month.

## BOARD OF HEALTH LABORATORY.

The following work in addition to routine was performed during the month:

Examination of blood from native horses has shown that murrina, a disease caused by *Trypanosoma hippicum*, has reappeared in Panama after an absence of about four years. At present it is reported from Pecora, Republic of Panama, only.

At the Corozal Farm balantidic dysentery has caused a moderate number of deaths among the swine.

A compilation of the histories of cases of neoplasms among negroes has shown that malignant tumors, particularly carcinomata, are relatively more frequent than is shown by the available literature on the subject.

An investigation of the breeding habits of *Mansonia titillans* and allied mosquitoes is progressing. The question is of some importance, since the larvæ do not come to the surface, but remain attached to the roots of plants, and are therefore difficult to kill.

A few observations have been made on the toxicity for guinea pigs of snake and tarantula venom. This work will be continued as reptiles become available.

Of the 4,521 anopheles mosquitoes sent to the laboratory whose condition permitted of identification all were *Albimanus* except 27 malefactor, 4 apicimacula, 3 tarsimacula, 1 argyritarsis, and 1 eiseni.

#### INSANE DEPARTMENT.

During the month there were 24 admissions, 6 discharges, and 7 deaths.

The emergency exits from the several ward buildings under construction were completed ready for use.

A case of typhoid infection was encountered on December 11, 1915, in a female black, age 26, Panama pay class, who has been in residence since July 22, 1909. The source of infection has not been discovered. Female patients admitted during the months of September, October, and November have been reexamined, and specimens of urine and stools forwarded to the board of health laboratory for examination for *B. Typhosus*.

#### CHRONIC WARD.

There were 26.03 chronic and incurable patients constantly cared for during the month. The cost per patient per day was \$0.22.

Detailed statistics are shown in Table XIII.

#### COLON HOSPITAL.

The average number of employees constantly sick was 20.07. The average number of days' treatment per employee was 6.34. The per capita cost of patients was \$2.51 gross and \$1.57 net.

Detailed statistics are shown in Table XIV.

#### PALO SECO LEPER ASYLUM.

The number of patients under treatment at the end of the month was 58, the same as for last month.

Detailed statistics are shown in Table XV.

#### SANTO TOMAS HOSPITAL.

During the month a total of 1,468 patients was treated, 80 more than for the preceding month. The daily average of patients in hospital was 462, as compared with 453 for November, and the total number of hospital days was 14,326 as compared with 13,603 for

the preceding month. A total of 99 deaths have occurred with tuberculosis, pneumonia, malaria, and chronic nephritis, the chief causes in the order named.

Detailed statistics are shown in Table XVI.

### DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Corozal, with an average weekly percentage of 0.88; that having the lowest was Ancon, with a percentage of 0.04.

Detailed statistics are shown in Table IX.

### SANITATION—CANAL ZONE.

The heavy rains ceased early in this month and during the last three weeks the physical conditions were those of the transition period from the wet to the dry season. The flow of small streams slacken and pools form along the watercourses, which demand careful attention to prevent them from becoming breeding places for mosquitoes. As might be expected, therefore, breeding was discovered and controlled in all the districts in places which had shown no breeding heretofore.

The general health and the malarial rate have both been good during the month, the average weekly percentage of employees excused for malaria being 0.07, as compared with 0.08 for the preceding month and 0.18 for December, 1914.

The sanitary work at the radio station at Darien was transferred to the Navy and the work at Corozal to the Army on December 31.

The following communicable diseases were reported during the month:

Measles.....	9	Tuberculosis.....	4
Mumps.....	3	Dysentery.....	2
Chicken pox.....	1	Erysipelas.....	2
Malarial fever.....	71		

Detailed statistics are shown in Table XVII.

### SANITATION—PANAMA.

The census of the city by the employees of the health department which was begun during the month of November was completed during this month and gave the following results:

By districts:		By races:	
Panama City (central).....	33,443	White (Panamanians and others).....	13,920
Panama City, Chorillo.....	5,318	Negro (West Indians).....	23,325
Calidonia, Guachapali, San Miguel, Santa Cruz, and Bella Vista.....	21,267	Mixed (Panamanians, Morenos).....	16,316
	60,028	Chinese.....	1,467
	<hr/>		<hr/>
			60,028
By sex:			
Males.....	31,830		
Females.....	28,198		
	<hr/>		
	60,028		



As a result of the check of this enumeration with the natural increase due to excess of births over deaths and of immigration from foreign countries over emigration, 60,778 was adopted as the actual population, and will be used as the basis of our statistics for 1916. The census was not extended beyond Bella Vista.

*Gutters.*—During the month a systematic removal of old roof gutters was instituted. Many of these gutters, which had been punched in previous years, had through age and rust become a source of danger to pedestrians; many of them through obstruction of their outlets by paper, leaves, rubbish, and dust had been converted into "containers." Active stegomyia breeding was noted in many of them which were found to be holding water. A total of 7,842 feet was removed during the month.

*Mosquito catch in railroad cars.*—An attempt was made to determine the extent to which the incoming passenger trains might play in transporting adult mosquitoes. It had been observed that the late afternoon trains from Colon and the west side of the canal were quite commonly infested by mosquitoes, and some complaint had been received at this office on this account. Three inspectors from this office were detailed to investigate the circumstances, and an examination of the train from Colon, arriving about 7 p. m., showed that cars contained adult mosquitoes. The shuttle train from the west side of the canal was likewise examined and presented a few adults, but the train from Balboa, arriving about 8.20 p. m., conveyed practically none; two or three adults were seen, but none caught, all of which were of the culex variety.

It is interesting to note that the observation car of the train from Colon was the one most largely infested, this being accounted for by the open construction of the car. A few days later the outgoing train from Colon was examined prior to its departure from Colon, but no adult mosquitoes were detected. The observers noticed the first entrance of mosquitoes at the new Frijoles station, and a larger number at the point just south of Darien, where the trains frequently take siding, awaiting the arrival of the passenger train in the opposite direction. Mosquitoes were also seen entering the cars at Gamboa and New Culebra. The number of these insects infesting passenger trains is dependent upon the length of stops at the points mentioned.

Employees on passenger trains have noted that when there is a heavy rainfall mosquitoes enter the trains at stops in large numbers, being driven in presumably by the rainfall. As no anopheles were found the circumstance is of no particular moment, except that it is an illustration of the numerous factors which enter into the difficult problem of mosquito control.

*Inspection at Juan Diaz.*—At the request of the Panamanian authorities this office made an inspection and recommendations for remedying the conditions existing at the native village of Juan Diaz, which is about 8 or 10 miles east of the city. Quite a number of the native houses were inspected, and in practically every house cases of malaria were found, many apparently of a serious nature, and several deaths have been reported attributed to malaria. The distribution of quinine, tonics, and other medicines was made,

and recommendations submitted as to establishing a clearing around the houses, draining the stagnant pools, of which there were many, etc. A return visit several days later showed some improvement in the sanitary conditions and in the condition of the sick.

In one small home a darkened room was occupied by four persons infected with malaria; upon the wall of the room, on which the light fell when the window was opened, 15 blood-filled anopheles mosquitoes were noted in their characteristic "roosting" attitude. It was easy to imagine that there were many of such mosquitoes which were not visible at that time on account of their occupying darker portions of the room.

*Stables.*—The repair work on stables in the city is progressing favorably.

The following communicable diseases were reported during the month:

Tuberculosis.....	28	Chickenpox.....	6
Diphtheria.....	5	Measles.....	2
Typhoid fever.....	4	Mumps.....	1
Beriberi.....	2		

Detailed statistics are shown in Table XVII.

### SANITATION—COLON.

A census of the city was taken by the employees of the health department, and the actual enumeration showed a population of 24,443. After comparing this figure with the natural increase due to excess of births over deaths, and of immigration from foreign countries over emigration, 24,693 was adopted as the actual population, to be used as the basis of statistics for 1916.

The following communicable diseases were reported during the month:

Measles.....	13	Tuberculosis.....	9
Typhoid fever.....	1	Whooping cough.....	1
Mumps.....	9		

Detailed statistics are shown in Table XVII.

### QUARANTINE DIVISION.

On account of the continued closure of the canal the number of vessels entering has been greatly reduced.

At Cristobal-Colon 45 inspections of small sailing craft were made with regard to mosquito breeding in water containers on board. Mosquitoes were found breeding in water barrels of two of these vessels. The masters of all were instructed to screen their water containers.

With the advent of the rainy season, yellow fever is again reported in Guayaquil, though the number of cases to date is small. Plague in this port has increased very largely during the past month or two.

In Buenaventura, Colombia, yellow fever conditions continue unsatisfactory, and no apparent effort is being made to eradicate

the disease. From statements of traveling people it is evident that the infection extends through the country in the vicinity of Buenaventura. The statement by the authorities of Buenaventura that the yellow fever existing there came from Panama is entirely untrue and has been dealt with in a separate report.

Two cases of yellow fever arrived at Balboa quarantine from Buenaventura, Colombia, on December 10, 1915. These cases were isolated and the steamship *Jamaica*, on which they arrived, disinfected and held, with personnel, in quarantine for six days.

No other cases of quarantinable disease arrived at the isthmus during the month of December.

Detailed statistics are shown in Table XVIII.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE.

ABSOLUTE NUMBERS.

Color.	Number of employees.	Admissions to hospitals.			Deaths.			Non effective from sickness.	
		Total.	Disease.	Ex-ternal causes.	Total.	Dis-ease.	Ex-ternal causes.	Days. treated.	Con-stantly non-effective.
December, 1915.									
White.....	4,523	107	85	22	1	1	.....	2,568	82.83
Colored....	29,028	327	254	73	16	13	3	8,150	262.90
Total..	33,551	434	339	95	17	14	3	10,718	345.73
November, 1915.									
White.....	4,593	140	119	21	2	.....	2	2,362	78.72
Colored....	29,631	329	234	95	21	17	4	7,692	256.39
Total..	34,224	469	353	116	23	17	6	10,054	335.11
December, 1914.									
White.....	5,513	165	138	27	1	.....	1	3,281	105.85
Colored....	30,711	440	344	96	18	11	7	8,600	277.43
Total..	36,224	605	482	123	19	11	8	11,881	333.28



TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES: DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE—Continued.

PROPORTIONATE NUMBERS.<sup>1</sup>

Color.	Number of employees.	Admissions to hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Disease.	Ex-ternal causes.	Total.	Dis-ease.	Ex-ternal causes.	Days treated.	Con-stantly non-effective.
<i>December, 1915.</i>									
White.....	4,523	283.88	225.51	58.37	2.65	2.65	.....	.....	18.31
Colored....	29,028	135.18	105.00	30.18	6.61	5.37	1.24	.....	9.05
Total..	33,551	155.22	121.25	33.97	6.08	5.01	1.07	.....	10.31
<i>November, 1915.</i>									
White.....	4,593	365.77	310.91	54.86	5.23	.....	5.23	.....	17.14
Colored....	29,631	133.23	94.76	38.47	8.50	6.88	1.62	.....	8.65
Total..	34,224	164.44	123.77	40.67	8.06	5.96	2.10	.....	9.79
<i>December, 1914.</i>									
White.....	5,513	359.15	300.38	58.77	2.18	.....	2.18	.....	19.20
Colored....	30,711	171.93	134.41	37.51	7.03	4.30	2.73	.....	9.03
Total..	36,224	200.42	159.67	40.75	6.29	3.64	2.65	.....	10.57

Place.	Popula- tion.	Deaths.			Annual average per 1,000.		
		Total.	Disease.	Ex- ternal causes.	Total.	Disease.	Ex- ternal causes.
<i>December, 1915.</i>							
Panama.....	60,373	161	156	5	32.00	31.01	0.99
Colon.....	29,331	60	59	1	24.54	24.13	.41
Canal Zone.....	31,598	38	35	3	14.43	13.29	1.14
Total.....	121,302	259	250	9	25.62	24.73	.89
<i>November, 1915.</i>							
Panama.....	60,373	146	139	7	29.02	27.63	1.39
Colon.....	29,331	53	51	2	21.68	20.87	.81
Canal Zone.....	31,219	34	29	5	13.06	11.14	1.92
Total.....	120,923	233	219	14	23.12	21.73	1.39
<i>December, 1914.</i>							
Panama.....	60,000	198	195	3	39.60	39.00	.60
Colon.....	29,331	57	53	4	23.33	21.69	1.64
Canal Zone.....	36,862	46	38	8	14.97	12.37	2.60
Total.....	126,193	301	286	15	28.62	27.19	1.43

<sup>1</sup> Annual average per 1,000.

TABLE II.—DEATHS BY AGE, COLOR, AND SEX.

Age.	White.			Colored.			Yellow.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year....	7	1	8	46	35	81	1	....	1	54	36	90
1 to 4 years.....	1	1	2	12	16	28	....	....	....	13	17	30
5 to 10 years.....	....	....	....	4	....	4	....	1	1	4	1	5
11 to 20 years.....	2	....	2	1	4	5	....	....	....	3	4	7
21 to 30 years.....	2	....	2	28	14	42	....	....	....	30	14	44
31 to 40 years.....	1	1	2	18	10	28	1	....	1	20	11	31
41 to 50 years.....	2	....	2	15	6	21	1	....	1	18	6	24
51 to 60 years.....	1	....	1	9	2	11	....	....	....	10	2	12
61 to 70 years.....	1	1	2	5	3	8	....	....	....	6	4	10
71 to 80 years.....	1	....	1	1	1	2	....	....	....	2	1	3
81 to 90 years.....	....	....	....	....	1	1	....	....	....	....	1	1
91 to 100 years.....	....	1	1	....	....	....	....	....	....	....	1	1
Not stated.....	....	....	....	1	....	1	....	....	....	1	....	1
Total.....	18	5	23	140	92	232	3	1	4	161	98	259

TABLE III.—DEATHS BY NATIONALITY.

Nations.	Employees	Nonem- ployees..	Total.
Nicaragua.....	....	1	1
Antigua.....	....	2	2
Bahama Islands.....	....	2	2
Barbados.....	3	39	42
China.....	....	4	4
Colombia.....	1	14	15
Cuba.....	....	1	1
Demerara.....	....	1	1
England.....	....	1	1
Grenada.....	....	1	1
Guadeloupe.....	2	2	4
Guiana, British.....	....	1	1
Haiti.....	....	1	1
Jamaica.....	9	61	70
Martinique.....	....	7	7
Nevis.....	....	1	1
Panama.....	....	84	84
Persia.....	....	1	1
Peru.....	....	1	1
Spain.....	....	2	2
St. Lucia.....	....	1	1
St. Kitts.....	....	1	1
St. Vincent.....	1	4	5
United States.....	1	8	9
Venezuela.....	....	1	1
Total.....	17	242	259

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (4,072):		
Disease.....	1	2.95
External causes.....		
All causes.....	1	2.95
White women and children from the United States (3,362):		
Disease.....	5	17.85
External causes.....		
All causes.....	5	17.85
White employees and their families from the United States (7,434):		
Disease.....	6	9.69
External causes.....		
All causes.....	6	9.69
Total number of Americans on the Canal Zone (15,116):		
Disease.....	6	4.76
External causes.....	2	1.59
All causes.....	8	6.35

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD COMPANY.

Causes of death.	White.	Colored.	Total.
Disease:			
Cancer of stomach.....		1	1
Cerebral hemorrhage.....		1	1
Chronic nephritis.....		1	1
Cirrhosis of the liver.....	1		1
Infective exhaustive psychosis.....		1	1
Lobar pneumonia.....		5	5
Organic disease of heart.....		1	1
Tuberculosis of the lungs.....		2	2
Typhoid fever.....		1	1
External causes:			
Accidental drowning.....		2	2
Traumatism by machines.....		1	1
Total.....	1	16	17

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NON-EMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE.

Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>				
Typhoid fever.....	1	1		2
Malarial fever, estivo-autumna.....	1			1
Measles.....		1		1
Whooping cough.....	1			1
Dysentery.....	1			1
Pyæmia.....		1	1	2
Septicæmia.....	2			2
Pellagra.....	1	1		2
Tuberculosis of the lungs.....	14	8	1	23
Acute miliary tuberculosis.....	1		1	2
Tuberculous meningitis.....	3			3
Disseminated tuberculosis.....	5	1		6
Rickets.....		1		1
Syphilis, tertiary.....		1		1
Syphilis, period not stated.....	1			1
Cancer and other malignant tumors of the stomach and liver.....	1			1
Cancer and other malignant tumors of the fe- male genital organs.....		1		1
Diabetes.....			1	1
Alcoholism (acute or chronic).....		1		1
Alcoholism, acute.....	3			3
Alcoholism, chronic.....	2			2
Syphilis, hereditary.....	2	1		3
<i>Diseases of the nervous system and of the organs of special sense.</i>				
Cerebral hemorrhage, apoplexy.....	3	1		4
Softening of the brain.....	1			1
General paralysis of the insane.....	2		1	3
Other forms of mental alienation.....	1			1
Epilepsy.....	1			1
Convulsions of infants (under 5 years of age).....	1			1
Tumor of the brain.....	1			1
Diseases of the ears.....	1			1
<i>Diseases of the circulatory system.</i>				
Pericarditis.....	1	1		2
Acute endocarditis.....	1	1		2
Malignant endocarditis.....			1	1
Organic diseases of the heart.....	4	4	2	10
Aneurism.....	1			1
Arterio-sclerosis.....	1	1		2
Hemorrhage; other diseases of the circulatory system.....			1	1
<i>Diseases of the respiratory system.</i>				
Acute bronchitis.....	12	8		20
Chronic bronchitis.....		1		1
Broncho-pneumonia.....	12	2	3	17
Pneumonia (unqualified).....	3			3
Lobar pneumonia.....	5	3	5	13
Gangrene of the lungs.....		1		1
Asthma.....	1			1

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NON-EMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>Diseases of the digestive system.</i>				
Stricture of the œsophagus.....	1	.....	.....	1
Acute gastritis.....	1	.....	.....	1
Acute indigestion.....	.....	.....	1	1
Diarrhœa and enteritis (under 2 years).....	9	2	2	13
Colitis.....	8	1	.....	9
Diarrhœa and enteritis (2 years and over).....	1	1	.....	2
Colitis.....	1	.....	.....	1
Appendicitis and typhlitis.....	1	.....	.....	1
Cirrhosis of the liver.....	2	1	.....	3
Abscess of liver (unqualified).....	1	.....	.....	1
Simple peritonitis (nonpuerperal).....	2	1	.....	3
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>				
Acute nephritis.....	2	.....	.....	2
Bright's disease (chronic nephritis).....	8	4	2	14
Other diseases of the kidney and annexa.....	2	.....	1	3
Pyelonephrosis.....	1	.....	.....	1
<i>The puerperal state.</i>				
Abortion.....	1	.....	.....	1
Puerperal hemorrhage.....	.....	.....	1	1
Puerperal septicæmia.....	.....	.....	1	1
Eclampsia.....	2	.....	.....	2
<i>Diseases of the skin and of the cellular tissue.</i>				
Gangrene.....	.....	1	.....	1
<i>Malformations.</i>				
Congenital malformations (stillbirth not in- cluded).....	1	.....	1	2
<i>Diseases of early infancy.</i>				
Congenital debility, icterus, and sclerema.....	1	1	.....	2
Premature birth.....	5	1	2	8
Congenital debility.....	5	.....	2	7
Malnutrition.....	3	3	4	10
Other causes peculiar to early infancy (including various consequences of labor).....	1	.....	.....	1
<i>Old age.</i>				
Senility.....	1	.....	.....	1
Accidental drowning.....	2	.....	3	5
Traumatism by machines.....	1	.....	.....	1
Fractures (cause not specified).....	1	1	.....	2
Other external violence.....	1	.....	.....	1
<i>Ill-defined diseases.</i>				
Sudden death.....	.....	1	.....	1
Cause of death not specified or ill-defined.....	5	1	.....	6
Infections of undetermined origin.....	.....	.....	1	1
Total.....	161	60	38	259
Stillbirths.....	12	6	5	23
Grand total.....	173	66	43	282

TABLE VII.—SHOWING ADMISSIONS AND DEATHS

[illegible]





TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN THE

[illegible]





TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN THE

Diseases.	Ancon Hospital.										
	Employees.						Nonemployees.				
	Admissions.			Deaths.			Admissions.			Deaths.	
	White.			White.			White.			White.	
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.
<i>Diseases of the circulatory system—Continued.</i>											
Diseases of the veins(varices, hemorrhoids, phlebitis)...	1										
Hæmorrhoids.....			2				2		3		
Varicocele.....							1				
Diseases of the lymphatic system(lymphangitis,etc)								1			
Lymphadenitis (nonvenereal).....	1		1				4	1	1		
<i>Diseases of the respiratory system.</i>											
Diseases of the nasal fossæ ..	1							2	1		
Laryngitis.....									1		
Acute bronchitis.....	1						2	9	2		
Chronic bronchitis.....		1	2				1		1		
Broncho-pneumonia.....								1	1		2
Pneumonia (unqualified) ..			1								
Lobar pneumonia.....			6		1			1			1
Pleurisy.....	1		5					1			
Gangrene of the lungs.....											1
Asthma.....								1			
Other diseases of the respiratory system (tuberculosis excepted).....								1			
<i>Diseases of the digestive system.</i>											
Diseases of the teeth and gums.....			2					1	1		
Stomatitis.....								1	1		
Diseases of the pharynx.....	2		2				5	3			
Follicular tonsillitis.....	6	1	1				2	11	2		
Ulcer of the stomach.....								1			
Other diseases of the stomach (cancer excepted).....								1			
Acute gastritis.....	1								1		1
Chronic gastritis.....			1								
Acute indigestion.....			1								
Diarrhea and enteritis (under two years).....									2		
Diarrhea and enteritis (two years and over).....	1						1	2			



TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN THE

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the digestive system—Continued.</i>												
Colitis.....			1									
Intestinal parasites.....												
Tæniasis.....							1					
Appendicitis and typhlitis.....												1
Acute appendicitis.....							1	1				
Chronic appendicitis.....	2							2				
Inguinal hernia.....	1		8				1	1				
Other hernias.....							1					
Other diseases of the intestines.....	1		4				6	1	1			
Constipation.....							2	1				
Duodenal ulcer.....			1				1					
Cirrhosis of the liver.....												
Biliary calculi.....							1					
Other diseases of the liver.....							1					
Abscess of liver (unqualified).....												
Cholecystitis.....	1							1			1	
Simple peritonitis (nonpuerperal).....								1				
Other diseases of the digestive system (cancer and tuberculosis excepted).....									1			
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>												
Acute nephritis.....	1							1				
Bright's disease (chronic nephritis).....			5						1			2
Other diseases of the kidney and annexa.....		1	1					1	4			2
Pyelo-nephrosis.....							1					
Calculi of the urinary passages.....												
Cystitis.....	1		1					3				
Diseases of the urethra, urinary abscess, etc.....	2		1					1				
Nonvenereal diseases of the male genital organs.....	1		2									
Hematocele.....							1					
Hydrocele.....			1									
Uterine tumor (noncancerous).....								1				
Other diseases of the uterus.....								4	6			
Metritis.....							1	1				

## HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
		1						1						1						1			
														1									
							1																1
		1										2						1	2				
												1						2					
												9						1	1				
												1						1					
								1				1		4				6	1	2			
								1						1				2	1	1			
																		1					
	1			1								1		1				1					
																		1			1		
												1							1				
																		1					
																				1			
												1											
		2			1		2	2		2								1					
								1					1	1					2	3			4
																		1	5				2
	1												1					1					
							3					1	1										
												1		1				6					
												2		1					1				
		3					1					1		5				1					
														1				1					
							1											1	5	6			
																		1	1				

TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN THE

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Nonvenereal diseases of the genito-urinary system and annera—Continued.</i>												
Cysts and other tumors of the ovary.....								1				
Salpingitis and other diseases of the female genital organs.....								2	4			
Nonpuerperal disease of the breast (cancer excepted).....												
<i>The puerperal state.</i>												
Normal labor.....								10	6			
Extra-uterine pregnancy.....									1			
Hyperemesis gravidarum.....								1				
Abortion.....								1	4			
Puerperal hemorrhage.....								1		1		
Other accidents of labor.....								6	1			
Puerperal septicemia.....									1			1
<i>Diseases of the skin and of the cellular tissue.</i>												
Gangrene.....								1				
Furuncle.....												
Carbuncle.....	1		1									
Acute abscess.....			10					2				
Phlegmon and cellulitis.....			3				1	1				
Prickly heat.....									1			
Ulcer of the skin.....	1	1	1					1				
Impetigo contagiosa.....		1						1				
Other diseases of the skin and annera.....			2				2	1				
<i>Diseases of the bones and of the organs of locomotion.</i>												
Osteomyelitis.....			1									
Arthritis.....			5				1					
Synovitis.....							1					
Amputations.....	1											
Other diseases of the organs of locomotion.....	2							1				
<i>Malformations.</i>												
Congenital malformations (stillbirth not included).....								2	1			

## HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
																			1				
																			2	4			
							2												2				
							3	3											13	9			
																			1	1			
								2											1	6			
							1	1											1		1		
																			7	2			
																			1				1
							1												1				
																			1				
1												1		10					2				
												1		3					1	1			
2							1					3	1	1					2				
							1						1						2				
								1						2					2	1	1		
		1												2									
														5					1				
																			1				
						1						1							1				
												2							1				
																			2	1			



TABLE VII.—SHOWING ADMISSIONS AND DEATHS IN THE

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of early infancy.</i>												
Newborn child.....								13	5			
Premature birth.....								1			1	
Other causes peculiar to early infancy (including various consequences of labor).....								1			1	
<i>Affections produced by external causes.</i>												
Poisoning by food.....	1		3					3				
Other acute poisonings.....												
Conflagration.....			1									
Burns (conflagration excepted).....			1									
Traumatism by cutting or piercing instruments.....		5	10				1					
Traumatism by fall.....			2				1		1			
Traumatism in mines and quarries.....			1									
Traumatism by machines.....			3					1				
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....		1	1									
Railroad traumatism.....			3									
Dynamite traumatism.....												
Traumatism by landslides.....			1									
Injuries by animals.....												
Heat exhaustion.....			1									
Fractures (cause not specified).....		1	5				2					
Dislocations.....			1									
Sprains.....			4									
Other external violence.....	8	2	13				4	3	1			
<i>Ill-defined diseases.</i>												
Infections of undetermined origin.....	1						1		2			2
No disease.....	1		1					14	2			
Total.....	64	20	258			6	121	171	132		6	23





TABLE VIII.—CONSOLIDATED

	Remaining Dec. 1.			Admitted.			Died.		
	A. <sup>1</sup>	F. <sup>1</sup>	B. <sup>1</sup>	A.	F.	B.	A.	F.	B.
<b>ANCON HOSPITAL.</b>									
Panama Canal employees.....	19	11	148	56	16	166	.....	.....	3
Panama Railroad employees.....	5	.....	71	8	4	90	.....	.....	2
Panama pay patients.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Other pay patients.....	78	30	61	209	49	86	3	1	12
Charity patients.....	11	3	37	19	7	31	2	.....	6
Total.....	113	44	317	292	76	374	5	1	23
<i>Insane department.</i>									
Panama Canal employees.....	1	5	11	.....	.....	.....	.....	.....	1
Panama Railroad employees.....	.....	.....	1	.....	.....	2	.....	.....	.....
Panama pay patients.....	.....	15	162	.....	4	11	.....	.....	4
Other pay patients.....	5	2	4	4	.....	1	.....	.....	.....
Charity patients.....	4	4	44	.....	.....	2	.....	.....	1
Total.....	10	26	222	4	4	16	.....	.....	6
Grand total.....	123	70	539	296	80	390	5	1	29
<i>Corozal farm.</i>									
Panama Canal employees.....	.....	11	42	.....	.....	3	.....	.....	.....
<i>Chronic ward.</i>									
Charity patients.....	.....	.....	27	.....	.....	.....	.....	.....	.....
<b>COLON HOSPITAL.</b>									
Panama Canal employees.....	3	1	10	11	6	21	1	.....	2
Panama Railroad employees.....	.....	2	10	4	2	48	.....	.....	3
Panama pay patients.....	.....	1	1	.....	2	18	.....	.....	3
Other pay patients.....	3	7	3	19	17	19	.....	.....	.....
Charity patients.....	.....	.....	.....	4	1	6	.....	.....	.....
Total.....	6	11	24	38	28	112	1	.....	8
<b>PALO SECO LEPER ASYLUM.</b>									
Panama pay patients.....	.....	3	35	.....	.....	.....	.....	.....	.....
Charity patients.....	.....	2	18	.....	.....	.....	.....	.....	.....
Total.....	.....	5	53	.....	.....	.....	.....	.....	.....
<b>GRAND TOTAL.</b>									
Panama Canal employees.....	23	28	211	67	22	190	1	.....	6
Panama Railroad employees.....	5	2	82	12	6	140	.....	.....	5
Panama pay patients.....	.....	19	198	.....	6	30	.....	.....	7
Other pay patients.....	86	39	68	232	66	106	3	1	12
Charity patients.....	15	9	126	23	8	39	2	.....	7
Total.....	129	97	685	334	108	505	6	1	37

<sup>1</sup> A=white American; F=white foreign; B=black.

Number of employees remaining in hospitals:

White.....	49
Colored.....	265

Total.....	314
------------	-----

## HOSPITAL REPORT.

Discharged.			Transferred.			Remaining Dec. 31.			Average number constantly sick.			
A.	F.	B.	A.	F.	B.	A.	F.	B.	White.		Black.	Total.
									Ameri- can.	Foreign.		
57	20	193	.....		1	18	7	117	24.52	9.32	131.90	165.74
8	3	81	.....		3	5	1	75	4.71	1.29	77.94	83.94
187	60	85	4	.....	2	93	18	48	86.77	29.39	52.39	168.55
19	6	21	.....		.....	9	4	41	11.42	3.55	39.71	54.68
271	89	380	4	.....	6	125	30	282	127.42	43.55	302.74	473.71
1	.....		.....		.....		5	10	.52	5.00	10.42	15.94
			.....		.....			3			2.06	2.06
		4	.....		1	18	165			15.81	165.58	181.39
1	1	.....	.....			8	1	5	6.10	1.90	4.23	12.23
		.....	.....		.....	4	4	45	4.00	4.00	44.71	52.71
2	1	4	.....	.....	1	12	28	228	10.62	26.71	227.00	264.33
273	90	384	4	.....	7	137	58	510	138.04	70.26	529.74	738.04
.....			.....		.....		11	45	.....	11.00	42.35	53.35
.....		1	.....		.....			26	.....	.....	26.03	26.03
11	7	19	1	.....	5	1	.....	5	2.61	.70	5.22	8.53
4	3	27	.....		18	.....	1	10	1.06	1.16	9.32	11.54
.....	1	1	.....	2	14	.....		1	.....	.22	.61	.83
16	15	16	.....	4	1	6	5	5	5.61	6.06	5.19	16.86
1	1	2	.....	.....	3	3	.....	1	.74	.32	.54	1.60
32	27	65	1	6	41	10	6	22	10.02	8.46	20.88	39.36
.....			.....		.....		3	35	.....	3.00	35.00	38.00
.....			.....		.....		2	18	.....	2.00	18.00	20.00
.....			.....		.....		5	53	.....	5.00	53.00	58.00
69	27	212	1	.....	6	19	23	177	27.65	26.02	189.89	243.56
12	6	108	.....		21	5	2	88	5.77	2.45	89.32	97.54
.....	1	5	.....	2	15	.....	21	202	.....	19.03	202.00	221.03
204	76	101	4	4	3	107	24	58	98.48	37.35	61.81	197.64
20	7	24	.....	.....	3	16	10	131	25.44	18.01	149.33	192.78
305	117	450	5	6	48	147	80	656	157.34	102.86	692.35	952.55

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.  
EMPLOYEES TREATED IN QUARTERS.

	Re- main- ing Dec. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- main- ing Dec. 31.		Days lost.		
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	Total.
Ancon.....	7	1	140	.....	.....	.....	140	1	2	.....	5	.....	348	25	373
Balboa.....	3	.....	84	58	.....	.....	78	25	6	27	3	6	200	176	376
Pedro Mi- guel.....	1	.....	12	.....	.....	.....	11	.....	.....	.....	2	.....	25	.....	25
Paraiso.....	1	.....	28	17	.....	.....	26	13	2	2	1	2	59	47	106
Gatun.....	.....	1	18	8	.....	.....	17	7	.....	.....	1	2	68	67	135
Colon.....	13	22	89	38	.....	.....	100	49	.....	.....	2	11	291	492	783
Total .	25	24	371	121	.....	.....	372	95	10	29	14	21	991	807	1,798

## ALL CASES TREATED, BUT NOT EXCUSED.

	Employees.			Nonemployees.			Total.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
Ancon.....	2,585	4,017	6,602	1,760	2,395	4,155	4,345	6,412	10,757
Balboa.....	3,505	3,838	7,343	828	614	1,442	4,333	4,452	8,785
Pedro Mi- guel.....	936	1,258	2,194	855	394	1,249	1,791	1,652	3,443
Paraiso.....	876	2,422	3,298	576	791	1,367	1,452	3,213	4,665
Gamboa.....	33	103	136	.....	311	311	33	414	447
Gatun.....	422	1,474	1,896	1,295	1,151	2,446	1,717	2,625	4,342
Colon.....	911	2,562	3,473	530	850	1,380	1,441	3,412	4,853
Total .	9,268	15,674	24,942	5,844	6,506	12,350	15,112	22,180	37,292

## CONSOLIDATED ADMISSIONS REPORT.

	White.	Colored.	Total.
Total admissions to hospitals, excluding Corozal farm and chronic ward.....	442	502	944
Total admissions of employees to quarters.....	371	121	492
Total.....	813	623	1,436
Less number of patients transferred between hospitals, and from quarters to hospitals, whose admissions are duplicated in above figures.....	21	77	98
Net admissions to hospitals and quarters....	792	546	1,338
Net admissions of employees to hospitals and quarters.....	467	392	859
Annual average per thousand of admissions of employees to hospitals and quarters.....	1,239	162.05	307.23

TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.

## CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

Diseases.	Pana- ma.	Colon.	Canal Zone.	Total.
Measles.....	2	13	9	24
Typhoid fever.....	4	1	.....	5
Annual average per 1,000.....	79	41	.....	.....
Mumps.....	1	9	3	13
Chicken pox.....	6	.....	1	7
Diphtheria.....	5	.....	.....	5
Beriberi.....	2	.....	.....	2
Malarial fever.....	.....	.....	71	71
Tuberculosis.....	28	9	4	41
Whooping cough.....	.....	1	.....	1
Dysentery.....	.....	.....	2	2
Erysipelas.....	.....	.....	2	2

TABLE X.—NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	45.36	222.32	267.68
Colon Hospital.....	5.53	14.54	20.07
Total.....	50.89	236.86	287.75
Quarters:			
Ancon.....	11.22	.81	12.03
Balboa.....	6.45	5.68	12.13
Pedro Miguel.....	.80	.....	.80
Paraiso.....	1.90	1.52	3.42
Gatun.....	2.19	2.16	4.35
Colon.....	9.38	15.87	25.25
Total.....	31.94	26.04	57.98

	Hospitals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	50.89	31.94	82.83
Colored.....	236.86	26.04	262.90
Total.....	287.75	57.98	345.73
Average number of employees constantly sick per 1,000:			
White.....	11.25	7.06	18.31
Colored.....	8.16	.89	9.05
Total.....	8.58	1.73	10.31

TABLE XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEES.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	10.88	24.10	20.95
Colon Hospital.....	7.15	6.05	6.34
Quarters:			
Ancon.....	2.43	25.00	3.29
Balboa.....	1.63	2.75	2.06
Pedro Miguel.....	2.73		2.73
Paraiso.....	2.11	3.14	2.46
Gatun.....	4.00	9.72	5.66
Colon.....	3.36	12.02	6.20

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH.

	November, 1915.	October, 1915.	November, 1914.
Administration chief health office.....	\$399.31	\$959.22	\$591.98
Hospital division:			
Ancon Hospital.....	24,654.26	24,427.20	31,567.27
Board of health laboratory.....	1,275.89	1,587.44	
Corozal farm.....	6,475.76	6,876.07	1,039.86
Chronic ward.....	215.99	215.18	276.74
Colon Hospital.....	3,785.58	3,304.12	2,983.79
Palo Seco Leper Asylum.....	1,125.39	1,828.96	1,537.55
Santo Tomas Hospital.....	1,223.66	1,023.75	837.00
Medical storehouse.....	1,153.70	832.79	602.68
Total.....	39,910.14	40,095.51	38,844.89
District dentists.....	3.33	56.49	
Dispensaries:			
Naos Island.....			59.17
Balboa.....	1,167.51	989.14	953.50
Corozal.....	466.41	528.77	752.04
Pedro Miguel.....	458.42	499.64	398.70
Paraiso.....	661.72	619.63	478.00
Culebra.....			440.66
Gamboa.....	140.16	157.44	122.87
Gatun.....	706.16	755.40	638.78
Margarita Point.....			114.91
Total.....	3,633.71	3,606.51	3,958.63
Sanitary division:			
General inspector.....	50.00	50.00	50.00
Health office, Panama.....	4,002.50	4,003.29	2,692.09
Street cleaning.....	4,287.88	4,592.46	4,377.90
Health Office, Colon.....	3,940.36	3,412.47	2,119.00
Street cleaning.....	2,057.50	2,231.78	1,753.94
Zone sanitation—			
Ancon.....	1,726.58	1,639.57	1,679.49
Balboa.....	1,560.94	1,529.91	1,126.86
Corozal.....	1,373.92	1,604.83	1,110.87
Pedro Miguel.....	2,871.18	3,119.47	799.91
Paraiso.....			796.79

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH—  
Continued.

	November, 1915.	October, 1915.	November, 1914.
Sanitary division—Continued.			
Zone sanitation—Continued.			
Culebra.....		\$1. 11	\$858. 18
Frijoles.....	\$103. 06	102. 98	102. 00
Gatun.....	3, 452. 82	3, 070. 17	1, 392. 41
Cristobal and Mount Hope.....	2, 618. 00	2, 587. 62	1, 446. 25
Total.....	28, 044. 74	27, 945. 66	20, 305. 69
Quarantine division:			
Chief quarantine office.....	382. 40	169. 34	.....
Balboa-Panama.....	2, 128. 02	1, 892. 06	.....
Colon-Cristobal.....	3, 343. 94	3, 350. 52	.....
Total.....	5, 854. 36	5, 411. 92	3, 562. 04
RECAPITULATION.			
Chief health office.....	399. 31	959. 22	591. 98
Hospital division.....	39, 910. 14	40, 095. 51	38, 844. 89
Dispensaries.....	3, 633. 71	3, 606. 51	3, 958. 63
Sanitary division.....	28, 044. 74	27, 945. 66	20, 305. 69
Quarantine division.....	5, 854. 36	5, 411. 92	3, 562. 04
Total.....	77, 842. 26	78, 018. 82	67, 263. 23

November, 1915, last available figures.



TABLE XIII.—ANCON HOSPITAL.  
REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total number treated.	American.		Other nations.	
		White.	Black.	White.	Black.
Hospital:					
Panama Canal employees....	416	72	3	27	314
Panama Railroad employees....	178	13	.....	4	161
Panama Government pay patients.....	1	.....	.....	.....	1
Other pay patients.....	513	287	.....	79	147
Charity patients.....	108	30	.....	10	68
Total.....	1,216	402	3	120	691
Asylum:					
Panama Canal employees....	17	1	.....	5	11
Panama Railroad employees....	3	.....	.....	.....	3
Panama Government pay patients.....	192	.....	.....	19	173
Other pay patients.....	16	9	.....	2	5
Charity patients.....	54	4	.....	4	46
Total.....	282	14	.....	30	238
Grand total.....	1,498	416	3	150	929
Soldiers.....	177	177	.....	.....	.....
Chronics.....	27	.....	.....	.....	27
Corozal farm (cripples).....	56	.....	.....	11	45

REPORT OF DAYS LOST IN HOSPITAL.

	Total.	Ameri- can.	Other white.	Black.
Hospital:				
Panama Canal employees.....	5,138	760	289	4,089
Panama Railroad employees.....	2,602	146	40	2,416
Panama Government pay patients..	25	.....	.....	25
Other pay patients.....	5,225	2,690	911	1,624
Charity patients.....	1,695	354	110	1,231
Total.....	14,685	3,950	1,350	9,385
Asylum:				
Panama Canal employees.....	494	16	155	323
Panama Railroad employees.....	64	.....	.....	64
Panama Government pay patients..	5,623	.....	490	5,133
Other pay patients.....	379	189	59	131
Charity patients.....	1,634	124	124	1,386
Total.....	8,194	329	828	7,037
Grand total.....	22,879	4,279	2,178	16,422
Soldiers.....	2,025	2,025	.....	.....
Chronics.....	807	.....	.....	807
Corozal farm (cripples).....	1,654	.....	341	1,313

Average cost of subsistence per patient per day, \$0.2199.



TABLE XIII.—ANCON HOSPITAL—Continued.

## WARD LABORATORY REPORT.

Blood examinations, total number.....	811
Estivo-autumnal.....	43
Mixed.....	11
Tertian.....	16
Differential counts.....	32
Hemoglobin estimations.....	85
Leucocyte counts.....	118
Red-blood counts.....	10
Stool examinations, total number.....	536
<i>Ascaris lumbricoides</i> .....	4
<i>Cercomonas intestinalis</i> .....	2
Ciliated monads.....	9
<i>Entameba (hystolitica and tetragena)</i> .....	5
Benzidine tests.....	1
Guaiac tests.....	1
Pus and blood.....	57
<i>Strongyloides</i> .....	13
<i>Tenia saginata</i> dispar (ova).....	1
<i>Trichocephalus</i> dispar.....	29
<i>Uncinaria</i> (ova).....	47
Urine examinations, total number.....	1,804
Albumen.....	550
Bile.....	12
Casts.....	469
Ciliated monads.....	5
Epithelia.....	530
Urea tests.....	4
Acetone tests.....	4
Guaiac tests.....	20
Hemin crystals.....	1
Indicon.....	133
Pus and blood.....	556
Sugar (positive, 4).....	120
Sputum examinations, total number.....	249
Positive for tubercle bacilli.....	21
Smear examinations, total number.....	14
Urethral.....	4
Eye (positive).....	4
Spinal fluid.....	3
Nasal.....	1

## REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
Thigh.....	2	.....
Leg.....	1	.....
Foot.....	1	.....
Digits, multiple.....	3	.....
Operations on bones:		
Craniectomy, decompressive.....	1	1
Ostelectomy.....	4	.....
Wiring of fractures, simple.....	2	.....
Wiring of fractures, compound.....	2	.....
Arthroplasty.....	2	.....
Adenectomy:		
Cervical.....	1	.....
Inguinal, single.....	15	.....
Inguinal, double.....	5	.....
Herniotomy:		
Inguinal, single.....	10	.....
Inguinal, double.....	2	.....
Ventral.....	1	.....
Genito-urinary tract:		
Nephrectomy.....	1	.....
Urethrotomy, internal.....	1	.....
Urethrotomy, external.....	2	.....
Varicocele, radical cure.....	1	.....
Hydrocele, single, radical cure.....	3	.....
Epididymotomy.....	9	.....
Curetage uteri.....	7	.....
Perineoplasty.....	1	.....
Obstetrical:		
Accouchement force.....	1	1
Low forceps.....	3	.....
Perineorrhaphy.....	2	.....
Thorax:		
Excision of breast and axilla.....	1	.....
Rectum:		
Hemorrhoids, radical cure.....	4	.....
Fistula in ano, excision of.....	1	.....
General:		
Varicose veins, excision of.....	1	.....
Tenorrhaphy.....	2	.....
Excision of surface neoplasms.....	3	.....
Laparotomy:		
For general peritonitis.....	1	1
Exploratory.....	1	.....
Gastroenterostomy.....	6	1
Enterectomy.....	1	.....
Appendectomy.....	8	.....
Appendectomy, with local peritonitis.....	4	.....
Appendectomy, with general peritonitis.....	1	1
Cholecystectomy.....	1	.....
Abscess of liver, laparo-hepatotomy for.....	2	1
Supravaginal hysterectomy.....	4	.....
Hysteromyomectomy.....	2	.....
Salpingo-oophorectomy.....	4	.....
Oophorectomy.....	1	.....
Suspensio-uteri.....	4	.....
Various minor operations.....	83	.....
Total.....	217	6

## REPORT OF SURGICAL OPERATIONS—Continued.

## REPORT OF OPERATIONS, EYE AND EAR DEPARTMENT.

Adenoidectomy.....	10
Submucous resection.....	2
Tonsillectomy.....	22
Mastoidectomy.....	1
Plastic on nose.....	1
Keratotomy.....	1
Chalazion excision.....	2
Enucleation eye.....	1
Minor operations:	
Ear.....	2
Throat.....	1
	<hr/>
	3
Total.....	43
Refractions.....	150

## REPORT OF OUTPATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Prescrip- tions.
Medical.....	308	222	69	304
Surgical.....	247	139	16	54
Eye and ear.....	622	245	10	233
Total.....	1,177	606	95	591

## MONTHLY REPORT OF VACCINATIONS.

Number of adults vaccinated.....	338
Number of "takes".....	7
Number of school children vaccinated.....	1
Total vaccinations.....	339
Number of "takes".....	1

## REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations of—	
Blood cultures.....	21
Throat cultures.....	22
Urines.....	16
Stools.....	12
Autopsies.....	5
Pathological fluids, exudates, etc.....	20
Sputum.....	6
Leper suspect.....	1
Wassermann reactions.....	608
Animal inoculations.....	3
Autogenous vaccines prepared.....	1
Dark field examinations.....	2
Miscellaneous.....	2
Blood for malaria.....	4
Determination of Phenol coefficient of liquor cresolas compositus.....	1
Chemical analysis of—	
Milk from private dairies supplying cities of Panama and Colon.....	2
Mother's milk.....	5
Urines.....	10
Stools.....	1
Spinal fluid.....	1
Sodium fluoride.....	1
Stomach contents.....	1
Electrolytes for storage batteries.....	23
Beer.....	2
Disinfectant.....	1
Cottonseed cake.....	1
Crude carbolic acid.....	1

## REPORT OF SURGICAL OPERATIONS—Continued.

## REPORT OF BOARD OF HEALTH LABORATORY—Continued.

Surgical tissues and neoplasms reported .....	32
Autopsies performed .....	37
Animals autopsied or examined .....	6
Pathological tissues prepared, paraffin .....	568
Rats examined:	
<i>Mus musculus</i> .....	443
<i>Mus norvegicus</i> .....	423
<i>Mus alexandrinus</i> .....	22
<i>Mus rattus</i> .....	158
	1,046
Bodies embalmed .....	4
Interments at Corozal .....	37

## COROZAL HOSPITAL.

## STATEMENT OF COMMITMENTS, DISCHARGES, AND DEATHS.

	Male.	Female.
Commitments:		
From Canal Zone, first admission .....	7	2
From Panama Government, first admission .....	5	9
From Panama Government, fourth admission .....		1
	12	12
Total .....	24	

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Discharges:						
Japan .....					1	
Panama .....				1	1	1
United States of America .....			1	1	1	
Total .....			1	1	3	1

Medical diagnosis.	Mental diagnosis.	Deaths.	
		Male.	Female.
Paresis .....	Paresis .....	1	
Infection undetermined .....	Infective exhaustive psychosis.	1	
Ischio rectal abscess and fistula in ano (complete).	Cerebral syphilis .....		1
Softening of brain: scurvy ....	Arteriosclerosis, cerebral .....		1
Pyemia and septicemia .....	Cerebrospinal syphilis .....		1
Exhaustion: general paralysis of the insane.	General paralysis of the insane.	1	
General paralysis of the insane.	Paresis .....	1	

<sup>1</sup> Deported.

TABLE XIV.—COLON HOSPITAL.

## NATIONALITY OF PATIENTS.

	White Ameri- cans.	White for- eign.	Black.	Total.
Panama Canal employees.....	14	7	31	52
Panama Railroad employees.....	4	4	58	66
Panama pay .....	.....	3	19	22
Other pay .....	22	24	22	68
Charity cases .....	4	1	6	11
Total.....	44	39	136	219

Cost of subsistence per patient per day, 33 cents.

## LABORATORY REPORT.

Blood examinations.....	21
Estivo-autumnal.....	6
Tertian.....	1
Leucocytosis.....	5
Differential counts.....	2
Stool examinations.....	8
Amoeba coli.....	2
Pus and blood.....	5
Cercomonas intestinalis.....	1
Urine examinations.....	85
Albumen.....	25
Sugar (qualitative).....	2
Casts.....	4
Epithelia.....	21
Indicon.....	2
Pus and blood.....	18
Triple phosphates.....	4
Calcium oxalates.....	2
Uric acid crystals.....	2
Negative.....	5
Sputum examinations.....	7
Positive for tubercle bacilli.....	3
Smear examinations.....	6
Urethral for gonococci, positive.....	3
Necropsies.....	4

## SURGICAL OPERATIONS.

Amputations:	
Thigh.....	1
Herniotomy:	
Inguinal, single.....	6
Strangulated.....	3
Genito-urinary tract:	
Urethroptomy, external.....	1
Orchidectomy.....	1
Curetage uteri.....	1
Rectum:	
Hemorrhoids.....	3
General:	
Extensive injuries to soft parts, operations for.....	2
Laparotomy:	
Gastro-enterostomy.....	2
Appendectomy.....	5
Cholecystectomy.....	1
Pan-hysterectomy.....	2
Minor operations, various.....	17
Minor operations, various (dispensary).....	148

TABLE XV.—PALO SECO LEPER ASYLUM.

## NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Others.	
	White.	Black.	White.	Black.	White.	Black.
Panama Canal employees.....	0	0	0	0	0	0
Panama Railroad employees..	0	0	0	0	0	0
Pay cases.....	3	35	0	0	3	35
Charity cases.....	2	18	0	0	2	18
Total.....	5	53	0	0	5	53

Cost of subsistence per patient per day, 25 cents.

TABLE XVI.—SANTO TOMAS HOSPITAL.

Class.	Remain- ing Dec. 1.	Admit- ted.	Dis- charged.	Died.	Remain- ing Dec. 31.
Pay cases.....	35	103	95	3	462
Charity cases.....	429	901	823	96	14,326
Total.....	464	1,004	918	99	14,788

Average number of patients constantly sick..... 462  
 Total number of days treatment..... 14,326  
 Average number of days treatment..... 9  
 Cost of subsistence per patient per day ..... \$0.38

## NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Colored.	White.	Colored.
Pay cases.....	138	2	.....	42	94
Charity cases.....	1,330	18	1	162	1,149
Total.....	1,468	20	1	204	1,243

## DISPENSARY REPORT.

Class.	White.	Colored.	Total.
Natives.....	24	696	720
Foreigners.....	51	422	473
Total.....	75	1,118	1,193

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

## DISEASES TREATED.

Malaria.....	104
Measles.....	1
Whooping cough.....	1
Influenza.....	8
Dysentery.....	10
Erysipelas.....	2
Purulent infection and septicemia.....	8
Pellagra.....	4
Beriberi.....	1
Tuberculosis of the lungs.....	37
Tuberculosis of other organs.....	2
Syphilis.....	61
Gonococcus infection.....	12
Soft chancre.....	42
Cancer and other malignant tumors of organs not specified.....	1
Other tumors (tumors of the female genital organs excepted).....	4
Alcoholism (acute or chronic).....	16
Drug habit.....	2
Locomotor ataxia.....	1
Other diseases of the spinal cord.....	3
Paralysis without specified cause.....	1
Other forms of mental alienation.....	6
Epilepsy.....	4
Convulsions (nonpuerperal) (5 years and over).....	4
Hysteria.....	4
Neuralgia.....	3
Other diseases of the nervous system.....	2
Diseases of the eyes and their annexa.....	21
Diseases of the ear.....	2
Organic diseases of the heart.....	22
Diseases of the arteries, atheroma, aneurysm, etc.....	1
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	4
Diseases of the lymphatic system (lymphangitis, etc.).....	24
Diseases of the nasal fossæ.....	2
Chronic bronchitis.....	22
Broncho-pneumonia.....	11
Pneumonia.....	9
Pleurisy.....	2
Other diseases of the respiratory system (tuberculosis excepted).....	1
Diseases of the pharynx.....	14
Ulcer of the stomach.....	2
Other diseases of the stomach (cancer excepted).....	4
Diarrhea and enteritis (two years and over).....	10
Ankylostomiasis.....	49
Appendicitis and typhlitis.....	15
Hernia, intestinal obstructions.....	10
Constipation.....	8
Cirrhosis of the liver.....	1
Biliary calculi.....	1
Other diseases of the liver.....	2
Bright's disease (chronic nephritis).....	28
Diseases of the bladder.....	5
Diseases of the urethra (urinary abscess, etc.).....	6
Nonvenereal diseases of the male genital organs.....	4
Uterine hemorrhage (nonpuerperal).....	2
Uterine tumor (noncancerous).....	2
Metritis.....	4
Cysts and tumors of the ovary.....	2
Salpingitis and other diseases of the female genital organs.....	6
Nonpuerperal diseases of the breast (cancer excepted).....	1
Normal labor.....	101
Accidents of pregnancy.....	31
Gangrene.....	1
Acute abscess.....	17
Other diseases of the skin and annexa.....	29



TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

## DISEASES TREATED—Continued.

Diseases of the bones (tuberculosis excepted).....	6
Diseases of the joints (tuberculosis and rheumatism excepted).....	8
Other diseases of the organs of locomotion.....	2
Congenital malformations (stillbirth not included).....	3
Newborn child.....	101
Congenital debility, icterus, and sclerema.....	13
Other suicides.....	2
Burns (conflagration excepted).....	3
Traumatism by cutting or piercing instruments.....	2
Fractures (cause not specified).....	6
Dislocations.....	2
Other external violence.....	21
No disease.....	18
Total.....	1,007

## SURGICAL OPERATIONS.

	Number.	Died.
Leg amputations.....	3	1
Ostectomy.....	1	1
Adenectomy, cervical.....	1	
Adenectomy, inguinal, single.....	7	
Adenectomy, inguinal, double.....	1	
Adenectomy, femoral.....	1	
Herniotomy, inguinal, single.....	9	
Herniotomy, inguinal, double.....	1	
Herniotomy, combined (any two of above).....	1	
Urethrotomy, internal.....	4	
Urethrotomy, external.....	1	
Varicocele, radical cure.....	1	
Hydrocele, single, radical cure.....	1	
Orchidectomy.....	1	
Amputation of scrotum.....	1	
Curetage uteri.....	7	1
Hemorrhoids, radical cure.....	1	
Fistula in anus, excision of.....	2	
Aneurismorrhaphy.....	1	
Tenorrhaphy.....	1	
Excision of surface neoplasms.....	2	
Plastic operation for congenital defect.....	2	
Plastic operation for severe injuries.....	1	
Plastic operation for effects of disease.....	14	
Gastrotomy.....	1	1
Gastro-nterostomy.....	1	
Appendectomy.....	15	
Appendectomy with local peritonitis.....	2	
Sigmoidopexy.....	1	
Abscess of liver, laparo-hepatotomy for.....	1	
Supravaginal hysterectomy.....	4	
Salpingectomy, double.....	2	
Salpingo-oophorectomy.....	6	
Suspensio-uteri.....	2	
Major operations, various other.....	1	
Minor operations, various.....	30	
Total.....	131	4

TABLE XVII.—SANITATION.

The following is a summary of sanitary work performed and material expended during the month of December, 1915, in the Canal Zone:

Work requests on supply department:

Grass cutting.....	14
Screening.....	5
Miscellaneous.....	2
Work requests on engineering department.....	23
Notices served to abate nuisances.....	10
Building permit approved.....	1
Inspections of closets.....	882
Inspections of stores.....	40
Inspections of shops.....	78
Garbage cans emptied daily.....	93,132
Closets disinfected.....	1,363
Rat traps in use.....	425
Adult anopheles caught.....	5,725
Adult culices caught.....	15,905
Adult stegomyia caught.....	126
Containers with stegomyia larvæ found.....	4
Larvacide used..... gallons.....	851
Crude oil used..... do.....	15,506
Kerosene used..... do.....	750
Rats destroyed.....	375
Number of sewer connections made.....	2

SUMMARY OF ROUTINE WORK DONE BY THE PANAMA HEALTH OFFICE.

Mosquito, rat and fly work:

Ditches cleaned and maintained..... linear feet.....	119,538
New ditches dug..... do.....	3,098
Earth used in filling..... cubic yards.....	0
Larvacide used..... gallons.....	590
Crude oil used..... do.....	6,129
Pools oiled..... square yards.....	768,525
Water containers treated.....	11,383
Mosquito breeding places found (Stegomyia 148).....	301
Fly breeding places found.....	119
Flies trapped (13,000 per quart)..... quarts.....	20
Number of rats trapped.....	511
Number of room disinfections made.....	10
Garbage collection:	
Number of loads garbage removed to dump.....	5,312
Garbage removed to dump..... cubic yards.....	10,394
Total number of cans of garbage emptied.....	108,430
Buildings:	
Number of buildings inspected.....	5,239
Number of plans for new buildings approved.....	13
Number of permits issued for repairs to old buildings.....	60
Total number of building permits issued.....	73
Number of buildings condemned.....	4
Number of buildings demolished.....	0
Number of stables condemned.....	3
Street cleaning:	
Average number of square yards cleaned daily.....	600,000
Average number of square yards sprinkled daily.....	90,000
Number of private properties cleaned.....	5
Number of notices served and nuisances abated.....	445
Vaccinations:	
Vaccinations during month.....	0
Vaccinations since Apr. 1, 1914.....	23,244

TABLE XVII.—SANITATION—Continued.

## MONTHLY WORK REPORT FOR COLON AND CRISTOBAL AND MOUNT HOPE.

[Health office, Colon-Cristobal, Dec. 31, 1915.]

## Sanitation, Colon, general:

Streets cleaned.....	square yards..	4, 123, 178
Alleys maintained.....	do.....	702, 000
Private properties cleaned.....		774
Fumigated.....	cubic yards..	14, 104
Quinine issued.....	doses..	11, 859
Rats caught.....		208
Loads of yard garbage disposed of.....		696
Cans of garbage (2,400 cubic yards).....		67, 587
Colon dump maintained.....		
Ditches maintained.....	linear yards..	125
Vegetation removed, Colon Dump.....	acres..	4
Vegetation removed, Hotel Washington.....	do.....	5
Vegetation removed, Colon Hospital.....	do.....	5
Vegetation removed, Quarantine Station.....	do.....	2½
Vegetation removed, Panama Railroad properties.....	do.....	25
Parkway and E. St. maintained.....		
Filling Panama Railroad lots in Stalbo District.....	cubic yards..	264
Square yards oiled.....		62, 180
Receptacles treated.....		54, 530
Mosquito breeding places destroyed.....		32
Fly breeding places destroyed.....		52
Buildings inspected.....		8, 685
Larvacide used in Colon.....	gallons..	800
Crude oil used in Colon.....	do.....	900
Nuisances abated.....		317

## Building, Colon:

Plans approved.....		16
Permits issued.....		19
Permits to repair issued.....		103
Bills collected.....		135

## Colon, sewers:

New connection made during the month.....		21
Total number of connections made to date.....		1, 226
Houses in which extensions were made.....		8
Outstanding permits.....		90

## Sanitation, Cristobal:

Cans of garbage (731 cubic yards).....		14, 240
Loads of yard garbage handled.....		188
Square yards oiled.....		9, 950
Receptacles treated.....		5, 700
Mosquito breeding places destroyed.....		8
Fly breeding places destroyed.....		6
Crude oil used.....	gallons..	50
Larvacide used.....	do.....	40
Buildings inspected.....		270
Nuisances abated.....		14

## Sanitation, Mount Hope:

Cans of garbage (185 cubic yards).....		1, 860
Square yards oiled.....		146, 200
Receptacles treated.....		17, 150
Mosquito breeding places destroyed.....		59
Mosquitoes caught in barracks—		
Anopheles.....		59
Culex.....		1, 310
Mosquitoes caught in cars and quarters (village)—		
Anopheles.....		109
Culex.....		2, 807
Larvacide used.....	gallons..	281
Crude oil used.....	do.....	197, 902
Mount Hope Cemetery maintained.....		
Ditches maintained.....	linear yards..	19, 145
Vegetation removed.....	square yards..	186, 395
Burials during the month.....		50

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL.

Vessels inspected and passed.....	89	
Vessels held in quarantine.....	9	
Total vessels entered.....		98
Vessels fumigated on arrival.....	8	
Vessels fumigated on departure.....	3	
Total vessels fumigated.....		11
Crew examined.....	7,211	
Passengers examined (including 379 United States troops).....	3,208	
Supplementary inspections.....	1,136	10,419
Persons vaccinated at ports of arrival because of compulsory vaccination law.....	399	
Persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	532	
Total persons vaccinated.....		931
Persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	245	
Persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	1,637	
Total persons held under observation.....		1,882
Total persons landed from foreign ports:		
Cabin.....	1,465	
Steerage.....	1,139	2,604
Total persons embarked for foreign ports:		
Cabin.....	1,499	
Steerage.....	1,167	2,666
Total persons arriving from coast towns on small launches and sailing craft.....	1,769	
Total persons sailing for coast towns on small launches and sailing craft.....	1,671	
Apparent increase for month from coast towns.....		93
Apparent decrease for month from foreign ports:		
Cabin.....	34	
Steerage.....	28	
Immigrants recommended for deportation.....		62
Bills of health issued or viséed.....		8
Inspections of docks.....		44
Inspections of vessels at docks.....		115
Total persons landed.....	4,373	168
Less number for Pacific ports.....	185	
Total persons sailing.....		4,188
Total apparent decrease for month.....		4,337
		149

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORT OF BALBOA-PANAMA AND COLON-CRISTOBAL—Continued.

## IMMIGRATION REPORT FOR COLON.

From—	Cabin.	Steerage.
Europe.....	25	10
United States.....	655	403
Jamaica and West Indies.....	58	249
Venezuela.....	2	.....
Colombia.....	102	157
Cuba.....	18	8
Costa Rica.....	88	23
Bocas del Toro.....	24	137
Coast towns.....	.....	215
Total.....	972	1,202
Grand total.....	2,174	

Men.....	868
Women.....	492
Children.....	220
United States troops.....	379
Unclassified.....	215

2,174

## QUARANTINE, BOCAS DEL TORO.

Vessels inspected and passed.....	15
Crew inspected and passed.....	1,359
Passengers inspected and passed.....	149
Passengers in transit inspected and passed.....	144

No quarantinable disease has appeared in this port, and the health conditions of the port and surrounding territory are good.

TABLE XIX.—STATEMENT OF QUININE ISSUED.

	Kilos.
Quinine sulphate.....	6.166
Quinine sulphate tablets.....	0.000
Total.....	6.166
Pounds avoirdupois.....	13.59

TABLE XX.—PERSONNEL REPORT.

	December, 1915.			Total, Novem- ber, 1915.	Total, Decem- ber, 1914.
	Officers and em- ployees.	Skilled and unskilled labor.	Total.		
Chief health office.....	4	.....	4	4	4
Medical storehouse.....	5	3	8	10	8
Quarantine division.....	21	17	38	43	42
Health office, Panama.....	21	152	173	176	152
Health office, Colon.....	18	153	171	195	120
Ancon Hospital.....	257	93	350	337	347
Colon Hospital.....	28	11	39	37	23
Santo Tomas Hospital.....	6	.....	6	6	5
Palo Sero Leper Asylum.....	11	16	27	30	17
Zone sanitation.....	18	122	140	146	97
Hospital farm.....	5	50	55	51	43
Dispensaries:					
Balboa.....	6	.....	6	7	6
Corozal.....	.....	.....	.....	4	5
Culebra.....	.....	.....	.....	.....	3
Gamboa.....	1	.....	1	1	1
Gatun.....	5	.....	5	5	4
Margarita Point.....	.....	.....	.....	.....	1
Naos Island.....	.....	.....	.....	.....	1
Paraiso.....	4	.....	4	4	4
Pedro Miguel.....	3	.....	3	3	3
Total.....	413	617	1,030	1,059	886

















UNIVERSITY OF FLORIDA



3 1262 08520 1324